

Airpol PRT55 screw compressor with dryer, frequency converter und Ultra Speed function

Max overpressure [MPa]	1.0
Variable capacity:	
Capacity min-max [m ³ /h] [0,65 MPa]	154 - 643
Capacity min-max [m ³ /h] [0,75 MPa]	154 - 595
Capacity min-max [m ³ /h] [0,8 MPa]	154 - 578
Capacity min-max [m ³ /h] [0,9 MPa]	154 - 544
Capacity min-max [m ³ /h] [1,0 MPa]	154 - 510
Dimension (LxWxH) [mm]	2530 x1000 x 1640
Compressed air connection	G 1 1/2
Weight [kg]	1500
Ambient temperature [°C]	+5 ÷ +40
Cooling air demand [m ³ /h]	8700
Compressed air temperature on the outlet [°C]	approx.10 degrees above ambient temperature
Sound level L [dB(A)]	75
Power transmission system	direct drive
Nominal motor power [kW]	55
Nominal fan motor power [kW]	2,2
Motor energy efficiency class	IE3
Motor IP Code	IP55
Feed voltage [V/ph/Hz]	400/3/50
Power feed cable [mm ²]	4x50+PE
Protection fuse [A]	125
Dryer pressure dew point [°C]	+3
Quality class in accordance with ISO 8573.1	2.4.2

Built-in refrigeration dryer with compressed air filters

The integrated compressed air treatment system removes moisture to the required dew point of +3°C and provides the residual oil content in the compressed air. Increased air quality class (2.4.2 according to ISO 8573.1) means, among others: longer life of pneumatic tools, limiting of compressed air network corrosion, minimizing the risk of the end product damage, e.g. paint coating.



Frequency converter

Provides smooth speed control in the range from 20% to 100% (depending on the pressure set on the controller). Main benefits for the user: adjustment of the compressor capacity to the actual compressed air demand; reduction of the compressor pressure hysteresis, and thus reduction of pressure variations in the pneumatic network (electric motor rotations is regulated so that to keep the network pressure value on the constant, set level in the range: min. 0,65 MPa, max. 1.0 MPa); minimization of mechanical wear and extending of the components working life; energy savings.

ULTRA SPEED function

The Ultra Speed function provides higher compressor capacity while setting a lower operating pressure. This function means even greater energy savings. Ultra Speed guarantees maximum possible compressor capacity at a set operating pressure, while the rotation speed is adjusted so that the current power consumption is close to the nominal motor power. Ultra Speed function is particularly useful in times of excessive compressed air demand.

Microprocessor control

Clear display, information LEDs and straightforward keyboard provide easy and quick working parameters configuration, define compressor operating status, as well as compressor operating mode selection.

